

June 14, 2011 Water Supply Forecast Discussion

This forecast includes observed conditions through the morning of June 14, 2011.

This forecast is posted at: <http://cdec.water.ca.gov/cgi-progs/iodir?s=b120up>.

Forecast Summary:

The projected median April-July runoff now ranges from 145 percent (Shasta Lake, Total Inflow) to 193 percent (Kern River). Nearly all forecasts decreased slightly or remained the same compared to last week's forecast. Statewide, the forecast decreased about 1 percent. The Kings forecast was increased by 10 thousand acre-feet (TAF) from last week's forecast while the San Joaquin was decreased by 30 TAF due to the daily flow trends observed this month in those basins.

Runoff:

For all forecasted rivers, the flow rates through mid-June are greater than 145 percent of average. The Tuolumne River rate is flowing at about 146 percent of normal. The rates for all rivers except the Tuolumne, San Joaquin, Kings, and Kern Rivers are flowing above 180 percent of normal, with the Cosumnes flowing at the greatest percent of average (394 percent).

Precipitation:

Through the first 13 days of June, the Northern Sierra 8-Station Index for June is 2.1 inches which is 210 percent of the average expected for the whole month. The seasonal total through June 13 is 71.1 inches which is 148 percent of average-to-date and 142 percent of an average water year.

Through the first 14 days of June, the San Joaquin 5-Station Index for June is 1.3 inches which is 217 percent of average for the month. The seasonal total is 62.6 inches, which is 160 percent of average-to-date and 153 percent of an average water year.

Snowpack:

According to snow sensor data for the morning of June 15, statewide snowpack is 58 percent (16 inches) of the April 1 average. On June 1, this value was 96 percent (27 inches). The sensors have shown a marked decrease due to the sunny skies and warmer temperatures observed since last week's forecast.

Weather and Climate Outlooks:

The weather forecast for the next six days indicates no precipitation anywhere in the state. Freezing levels in the Sierra should rise from the current range of 12,000 to 15,000 feet to a range of 16,000 to 18,000 feet by Monday.

The Climate Prediction Center's (CPC) six to ten day outlook (6/22/11-6/26/11) indicates below normal temperatures for coastal California and normal temperatures for the rest of the state. During this same period, there is an increased chance of below normal precipitation in the northeast corner of California.

The CPC's one-month outlook for July, updated on June 16, suggests equal chances of above and below normal temperatures and precipitation for all of California.

The CPC's three-month outlook (July-September, updated June 16) suggests equal chances of above and below normal temperatures for California except for the Mojave Desert and Colorado River regions

where above average temperatures are forecasted. The same outlook suggests equal chances of above and below normal precipitation for the state except for the far northern portion of the state where below normal precipitation is expected.

Next Update:

The next Bulletin 120 Forecast update will be produced for conditions on June 21, 2011, and will be available by Thursday, June 23, 2011. If you need guidance before then, or have any questions, please contact us:

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Important Links

Full Natural Flow Data:

Daily FNF

<http://cdec.water.ca.gov/cgi-progs/reports/FNF>

Monthly FNF

<http://cdec.water.ca.gov/cgi-progs/reports/FNFSUM>

Seasonal FNF

<http://cdec.water.ca.gov/cgi-progs/reports/FLOWOUT>

Precipitation Data:

Northern Sierra 8-Station Precipitation Tabulation Table

http://cdec.water.ca.gov/cgi-progs/products/8-Stations_Tab.pdf

San Joaquin 5-Station Precipitation Tabulation Table

http://cdec.water.ca.gov/cgi-progs/products/5-Stations_Tab.pdf

2010 WY Precipitation Summary

<http://cdec.water.ca.gov/cgi-progs/precip/PRECIPSUM>

Snow Data:

Latest Snow Sensor Report

<http://cdec.water.ca.gov/cgi-progs/snow/PAGE6>

Latest Statewide Summary of Snow Water Equivalents

<http://cdec.water.ca.gov/cgi-progs/snow/DLYSWEQ>

Monthly Snow Course Report

<http://cdec.water.ca.gov/cgi-progs/snow/COURSES>

California Nevada River Forecast Center Snow Melt Guidance Products:

Snow Data and Spring Seasonal Runoff Forecasts

<http://www.cnrfc.noaa.gov/snowmelt.php>

20-Day Snowmelt Guidance (Raw Model Output)

<http://www.cnrfc.noaa.gov/awipsProducts/RNOHFSESP.php>

Peak 1-Day Stream flow Volume and Date Forecast

<http://www.cnrfc.noaa.gov/awipsProducts/RNOHFSSPK.php>

Extended Regional Forecasts:

California Nevada River Forecast Center 6 Day QPF and Snow Level Forecast

<http://www.cnrfc.noaa.gov/awipsProducts/RNOHD6RSA.php>

Climate Prediction Center 6-10 Day Outlook Forecasts

<http://www.cpc.ncep.noaa.gov/products/predictions/610day/>

Climate Prediction Center One-Month Outlook Forecasts

<http://www.cpc.noaa.gov/products/predictions/30day/>

Climate Prediction Center Three-Month Outlook Forecasts

<http://www.cpc.noaa.gov/products/predictions/90day/>

Drought Information:

U.S. Seasonal Drought Outlook

http://www.cpc.ncep.noaa.gov/products/expert_assessment/seasonal_drought.html

El Nino/La Nina:

http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/enso_advisory/